

SECTION 1: Identification

1.1. Identification

Product form : Substance
Trade name : LOTADER® AX8840

1.2. Recommended use and restrictions on use

Use of the substance/mixture : plastics polymer modification
(Read the technical data sheet)

1.3. Supplier

SK Functional Polymer	SK geo centric Americas
16, Place de l'Iris	11700 Katy Freeway
Tour CB21	Suite 1200
Courbevoie , Île-de-France, 92400	Houston, TX 77079
France	USA
T +33 (0)9 74 18 95 07	
info-sds.skfp@sk.com	

1.4. Emergency telephone number

Emergency number : +1 703-741-5970 / 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labelling

No labelling applicable

The product is put on the market on a form that encapsulates component(s) in a polymer, To our knowledge, product on this form shouldn't have any significant risk for health by inhalation, ingestion or contact with skin or for the environment, According to European classification and labelling regulation for hazardous substances and preparations, the product is not subjected to labelling although one/several component(s) is/are classified as hazardous.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Contact with hot material - prevent serious burns. When heated to decomposition, emits toxic fumes. May be irritating to the respiratory system. The product is not biodegradable.

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

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Name	Product identifier	%
ETHYLENE AND GLYCIDYLMETHACRYLATE COPOLYMER* (Polymer)	CAS-No.: Trade Secret	99.6686
Glycidyl methacrylate (Impurity, Residual monomer)	CAS-No.: 106-91-2	0.005 – 0.015

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: No particular/specific measures required. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Artificial respiration and/or oxygen if necessary. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: After contact with the molten product, cool rapidly with cold water. Do not tear off solidified product from the skin. Seek medical attention if burns develop. Wash skin with plenty of water.
First-aid measures after eye contact	: Dust. Immediately rinse with water for a prolonged period while holding the eyelids wide open. If irritation persists, consult an eye specialist.
First-aid measures after ingestion	: Get medical advice/attention if you feel unwell. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide (CO₂).

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition generates : Carbon oxides (CO, CO₂).

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire	: Get the package away from the fire if this can be done without risk.
Protection during firefighting	: Self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Avoid dust formation. Protective goggles or face shield. In case of insufficient ventilation, wear suitable respiratory equipment.

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6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Do not discharge the product into the environment. Prevent the product from entering drains or confined areas.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Recover as much product as possible. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Material can accumulate some static charge during transfer. Avoid dust formation. Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.

Hygiene measures : Always wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Avoid inhalation of dust and contact with skin and eyes. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store away from heat/moisture. Remove all sources of ignition. Ground well. Protect from sunlight.

Incompatible products : Strong acids. Strong oxidizing agents.

Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

No additional information available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: pellets.
Colour	: White, translucent natural color
Odour	: acrylic-like
Odour threshold	: No data available
pH	: Not applicable.
Melting point	: 104 °C
Freezing point	: Not applicable.
Boiling point	: No data available
Flash point	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable
Vapour pressure at 50°C	: Not applicable
Relative vapour density at 20°C	: Not applicable
Particle size	: 2 — 5 mm typical value
Relative density	: No data available
Density	: 940 kg/m ³
Solubility	: Hydrocarbons, aromatic, halogenated, hot. Water: insoluble
Partition coefficient n-octanol/water (Log Pow)	: No data available No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 300 °C
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Not relevant.
Oxidising properties	: Not relevant.

9.2. Other information

Softening point : 87 °C (VICAT)

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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10.5. Incompatible materials

Strong acids. Oxidizing agent.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Polymer: according to its composition, this product should not be harmful in normal conditions of use

Acute toxicity (dermal) : Polymer: according to its composition, this product should not be harmful in normal conditions of use

Acute toxicity (inhalation) : Inhalation of fumes or vapors may cause regulatory irritation

Glycidyl methacrylate (106-91-2)

LD50 oral rat	597 mg/kg bodyweight Animal: rat, Guideline: other:
LD50 oral	451 mg/kg
LD50 dermal rabbit	480 mg/kg bodyweight Animal: rabbit, Guideline: other:
LD50 dermal	469 mg/kg
LC50 Inhalation - Rat [ppm]	45 ppm Source: NLM
ATE US (oral)	451 mg/kg bodyweight
ATE US (dermal)	469 mg/kg bodyweight
ATE US (gases)	45 ppmv/4h

Skin corrosion/irritation : Slightly irritating to the skin
Contact with hot material - prevent serious burns
At high temperature, products of thermal decomposition can be irritating to skin
pH: Not applicable.

Serious eye damage/irritation : May cause eye irritation
At high temperature, products of thermal decomposition can be irritating to eyes
pH: Not applicable.

Respiratory or skin sensitisation : Not classified

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Additional information	Residual monomer. Repeated or prolonged contact may cause sensitization of the skin (dermatitis, reddening,...)
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Germ cell mutagenicity : Polymer: according to its composition, this product should not be harmful in normal conditions of use

Carcinogenicity : Polymer: according to its composition, this product should not be harmful in normal conditions of use

Glycidyl methacrylate (106-91-2)

IARC group	2A - Probably carcinogenic to humans
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Reproductive toxicity : Polymer: according to its composition, this product should not be harmful in normal conditions of use

STOT-single exposure : Thermal decomposition can lead to the release of irritating gases and vapours
Dust from this product may cause respiratory irritation

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Glycidyl methacrylate (106-91-2)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified Polymer: according to its composition, this product should not be harmful in normal conditions of use

Glycidyl methacrylate (106-91-2)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information

12.1. Toxicity

Glycidyl methacrylate (106-91-2)	
LC50 - Fish [1]	2.8 mg/l Test organisms (species): <i>Oryzias latipes</i>
EC50 - Crustacea [1]	24.9 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	9.2 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i>)
LOEC (chronic)	3.18 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC (chronic)	1.02 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC chronic fish	1.2 mg/l Test organisms (species): <i>Oryzias latipes</i> Duration: '14 d'
NOEC chronic crustacea	1 mg/l

12.2. Persistence and degradability

Glycidyl methacrylate (106-91-2)	
Persistence and degradability	Rapidly degradable

ETHYLENE AND GLYCIDYLMETHACRYLATE COPOLYMER

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

LOTADER® AX8840	
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Bioaccumulative potential	Inert polymer. The product is not biodegradable.

12.4. Mobility in soil

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

- Waste treatment methods : Do not discharge the product into the environment. Dispose of in accordance with relevant local regulations. Recycle the material as far as possible. Incinerate at a licensed installation.
- Product/Packaging disposal recommendations : Do not discharge the product into the environment. Recycle the material as far as possible. Depending on the local regulations it may be disposed of as solid waste or incinerated in a suitable installation. Dispose of in accordance with relevant local regulations.
- Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

DOT

Not applicable

TDG

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory:

15.2. International regulations

CANADA

ETHYLENE AND GLYCIDYLMETHACRYLATE COPOLYMER

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

See EU SDS for additional information.

SECTION 16: Other information

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.